

# FIG. 1

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5' -GATAGTGTGTGTCCCCAAGGAAAATATATCCACCCTCAAATAATTGCTGTACC-
+-----+-----+-----+-----+-----+-----+
D S V C P Q G K Y I H P Q N N S I C C T -
- AAGTGCCACAAAGGAACCTACTTGTACAATGACTGTCCAGGCCCGGGCAGGATACGGAC-
+-----+-----+-----+-----+-----+-----+
K C H K G T Y L Y N D C P G P G Q D T D -
- TGCAGGGAGTGTGAGAGCGGCTCCTTCACCGCTTCAGAAAACCACCTCAGACACTGCCTC-
+-----+-----+-----+-----+-----+-----+
C R E C E S G S F T A S E N H L R H C L -
- AGCTGCTCCAAATGCCGAAAGGAAATGGGTCAGGTGGAGATCTCTTCTTGCACAGTGGAC-
+-----+-----+-----+-----+-----+-----+
S C S K C R K E M G Q V E I S S C T V D -
- CGGGACACCGTGTGTGGCTGCAGGAAGAACCAGTACCGGCATTATTGGAGTGAAAACCTT-
+-----+-----+-----+-----+-----+-----+
R D T V C G C R K N Q Y R H Y W S E N L -
- TTCCAGTGCTTCAATTGCAGCCTCTGCCTCAATGGGACCGTGCACCTCTCCTGCCAGGAG-
+-----+-----+-----+-----+-----+-----+
F Q C F N C S L C L N G T V H L S C Q E -
- AAACAGAACACCGTGTGCACCTGCCATGCAGGTTTCTTTCTAAGAGAAAACGAGTGTGTC-
+-----+-----+-----+-----+-----+-----+
K Q N T V C T C H A G F F L R E N E C V -
- TCCTGTAGTAACTGTAAGAAAAGCCTGGAGTGCACGAAGTTGTGCCTACCCCAGATTGAG-
+-----+-----+-----+-----+-----+-----+
S C S N C K K S L E C T K L C L P Q I E -
- AAT-3'
+-----+
N *

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FIG.2

5' -CATATGGACAGCGTTTGCCCCCAAGGAAAATACATCCACCCTCAAAATAATTGATTGTC-  
+-----+-----+-----+-----+-----+-----+-----+-----+  
M D S V C P Q G K Y I H P Q N N S I C -  
-TGTACCAAGTGCCACAAAGGAACCTACTTGTACAATGACTGTCCAGGCCCGGGGCAGGAT-  
+-----+-----+-----+-----+-----+-----+-----+-----+  
C T K C H K G T Y L Y N D C P G P G Q D -  
-ACGGACTGCAGGGAGTGTGAGAGCGGCTCCTTCACCGCTTCAGAAAACCACCTCAGACAC-  
+-----+-----+-----+-----+-----+-----+-----+-----+  
T D C R E C E S G S F T A S E N H L R H -  
-TGCCTCAGCTGCTCCAAATGCCGAAAGGAAATGGGTCAGGTGGAGATCTCTTCTTGCACA-  
+-----+-----+-----+-----+-----+-----+-----+-----+  
C L S C S K C R K E M G Q V E I S S C T -  
-GTGGACCGGGACACCGTGTGTGGCTGCAGGAAGAACCAGTACCGGCATTATTGGAGTGAA-  
+-----+-----+-----+-----+-----+-----+-----+-----+  
V D R D T V C G C R K N Q Y R H Y W S E -  
-AACCTTTTCCAGTGCTTCTGCTGATAGGATCC-3'  
+-----+-----+-----+-----+-----+-----+-----+-----+  
N L F Q C F C \*

# FIG.3

5' -CATATGGACA GCGTTTGCCCCCAAGGAAAATATATCCACCCTCAAAATAATTCGATTTC-  
 +-----+-----+-----+-----+-----+-----+-----+-----+  
 M D S V C P Q G K Y I H P Q N N S I C -  
 -TGTACCAAGTGCCACAAAGGAACCTACTTGTACAATGACTGTCCAGGCCCGGGGCAGGAT-  
 +-----+-----+-----+-----+-----+-----+-----+-----+  
 C T K C H K G T Y L Y N D C P G P G Q D -  
 -ACGGACTGCAGGGAGTGTGAGAGCGGCTCCTTCACCGCTTCAGAAAACCACTCAGACAC-  
 +-----+-----+-----+-----+-----+-----+-----+-----+  
 T D C R E C E S G S F T A S E N H L R H -  
 -TGCCTCAGCTGCTCCAAATGCCGAAAGGAAATGGGTCAGGTGGAGATCTCTTCTTGACAC-  
 +-----+-----+-----+-----+-----+-----+-----+-----+  
 C L S C S K C R K E M G Q V E I S S C T -  
 -GTGGACCGGGACACCGTGTGTGGCTGCAGGAAGAACCAGTACCGGCATTATTGGAGTGAA-  
 +-----+-----+-----+-----+-----+-----+-----+-----+  
 V D R D T V C G C R K N Q Y R H Y W S E -  
 -AACCTTTTCCAGTGCTTCAATTGCTCTCTGTAAAAGCTT-3'  
 +-----+-----+-----+-----+-----+-----+-----+-----+  
 N L F Q C F N C S L \*

# FIG.4

```

5' - CATATGGACAGCGTTTGCCCCCAAGGAAAATATATCCACCCTCAAAATAATTCGATTTGC -
+-----+-----+-----+-----+-----+-----+-----+-----+
  M D S V C P Q G K Y I H P Q N N S I C -

- TGTACCAAGTGCCACAAAGGAACCTACTTGTACAATGACTGTCCAGGCCCGGGGCAGGAT -
+-----+-----+-----+-----+-----+-----+-----+-----+
  C T K C H K G T Y L Y N D C P G P G Q D -

- ACGGACTGCAGGGAGTGTGAGAGCGGCTCCTTCACCGCTTCAGAAAACCACTCAGACAC -
+-----+-----+-----+-----+-----+-----+-----+-----+
  T D C R E C E S G S F T A S E N H L R H -

- TGCCTCAGCTGCTCCAAATGCCGAAAGGAAATGGGTCAGGTGGAGATCTCTTCTTGCACA -
+-----+-----+-----+-----+-----+-----+-----+-----+
  C L S C S K C R K E M G Q V E I S S C T -

- GTGGACCGGGACACCGTGTGTGGTTGCAGGAAGAACCAGTACCGGCATTATTGGAGTGAA -
+-----+-----+-----+-----+-----+-----+-----+-----+
  V D R D T V C G C R K N Q Y R H Y W S E -

- AACCTTTTCCAGTGCTTCAATTAATAGGGATCC - 3'
+-----+-----+-----+-----+-----+-----+-----+-----+
  N L F Q C F N *

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# FIG.5

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5' -CATATGTATATCCACCCTCAAAATAATTGATTTGCTGTACCAAGTGCCACAAAGGAACC-
+-----+-----+-----+-----+-----+-----+-----+-----+
  M  Y  I  H  P  Q  N  N  S  I  C  C  T  K  C  H  K  G  T  -
- TACTTGTACAATGACTGTCCAGGCCCGGGGCAGGATACGGACTGCAGGGAGTGTGAGAGC-
+-----+-----+-----+-----+-----+-----+-----+-----+
  Y  L  Y  N  D  C  P  G  P  G  Q  D  T  D  C  R  E  C  E  S  -
- GGCTCCTTCACCGCTTCAGAAAACCACTCAGACACTGCCTCAGCTGCTCCAAATGCCGA-
+-----+-----+-----+-----+-----+-----+-----+-----+
  G  S  F  T  A  S  E  N  H  L  R  H  C  L  S  C  S  K  C  R  -
- AAGGAAATGGGTCAGGTGGAGATCTCTTCTTGACAGTGGACCGGGACACCGTGTGTGGC-
+-----+-----+-----+-----+-----+-----+-----+-----+
  K  E  M  G  Q  V  E  I  S  S  C  T  V  D  R  D  T  V  C  G  -
- TGCAGGAAGAACCAGTACCGGCATTATTGGAGTGAAAACCTTTCCAGTGCTTCAATTGC-
+-----+-----+-----+-----+-----+-----+-----+-----+
  C  R  K  N  Q  Y  R  H  Y  W  S  E  N  L  F  Q  C  F  N  C  -
- TCTCTGTAAAAGCTT-3'
+-----+-----+-----+-----+-----+-----+-----+-----+
  S  L  *

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FIG.6

5' -CATATGTGTACCAAGTGCCACAAAGGAACCTACTTGTACAATGACTGTCCAGGCCCGGG-  
+-----+-----+-----+-----+-----+-----+-----+-----+  
M C T K C H K G T Y L Y N D C P G P G -  
-CAGGATACGGACTGCAGGGAGTGTGAGAGCGGCTCCTTCACCGCTTCAGAAAACCACCTC-  
+-----+-----+-----+-----+-----+-----+-----+-----+  
Q D T D C R E C E S G S F T A S E N H L -  
-AGACACTGCCTCAGCTGCTCCAAATGCCGAAAGGAAATGGGTCAGGTGGAGATCTCTTCT-  
+-----+-----+-----+-----+-----+-----+-----+-----+  
R H C L S C S K C R K E M G Q V E I S S -  
-TGCACAGTGGACCGGGACACCGTGTGTGGCTGCAGGAAGAACCAGTACCGGCATTATTGG-  
+-----+-----+-----+-----+-----+-----+-----+-----+  
C T V D R D T V C G C R K N Q Y R H Y W -  
-AGTGAAAACCTTTTCCAGTGCTTCAATTGCTCTCTGTAAAAGCTT-3'  
+-----+-----+-----+-----+-----+-----+-----+-----+  
S E N L F Q C F N C S L \*

# FIG.7

5' -CATATGTCGATTAGCTGTACCAAGTGCCACAAAGGAACCTACTTGTACAATGACTGTCCA-  
 +-----+-----+-----+-----+-----+-----+-----+-----+  
 M S I S C T K C H K G T Y L Y N D C P -  
 -GGCCCGGGGCAGGATACGGACTGCAGGGAGTGTGAGAGCGGCTCCTTCACCGCTTCAGAA-  
 +-----+-----+-----+-----+-----+-----+-----+-----+  
 G P G Q D T D C R E C E S G S F T A S E -  
 -AACCACCTCAGACACTGCCTCAGCTGCTCCAAATGCCGAAAGGAAATGGGTCAGGTGGAG-  
 +-----+-----+-----+-----+-----+-----+-----+-----+  
 N H L R H C L S C S K C R K E M G Q V E -  
 -ATCTCTTCTTGACAGTGGACCGGGACACCGTGTGTGGCTGCAGGAAGAACCAGTACCGG-  
 +-----+-----+-----+-----+-----+-----+-----+-----+  
 I S S C T V D R D T V C G C R K N Q Y R -  
 -CATTATTGGAGTGAAAACCTTTTCCAGTGCTTCAATTGCTCTCTGTAAAAGCTT-3'  
 +-----+-----+-----+-----+-----+-----+-----+-----+  
 H Y W S E N L F Q C F N C S L \*





FIG. 9

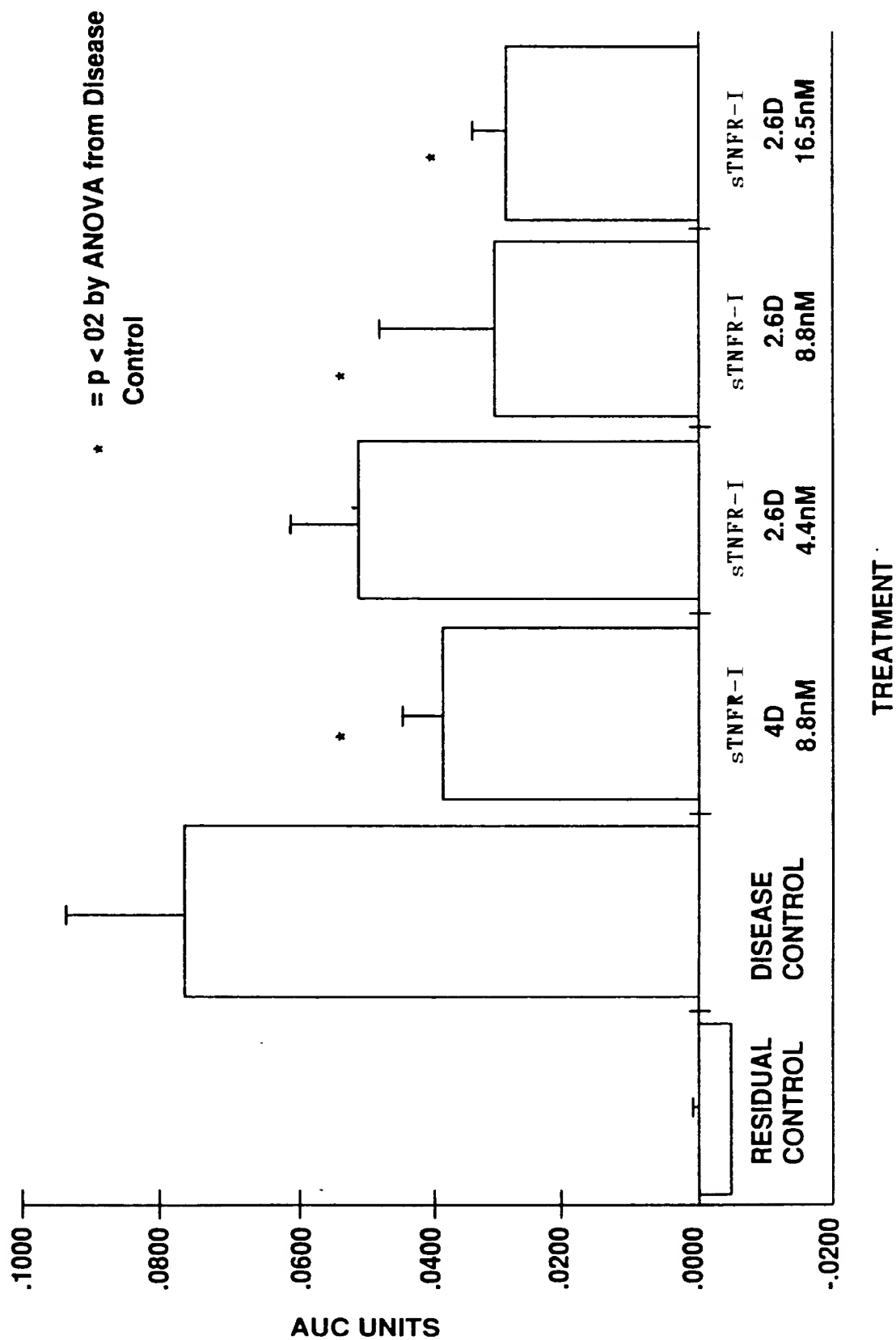


FIG. 10

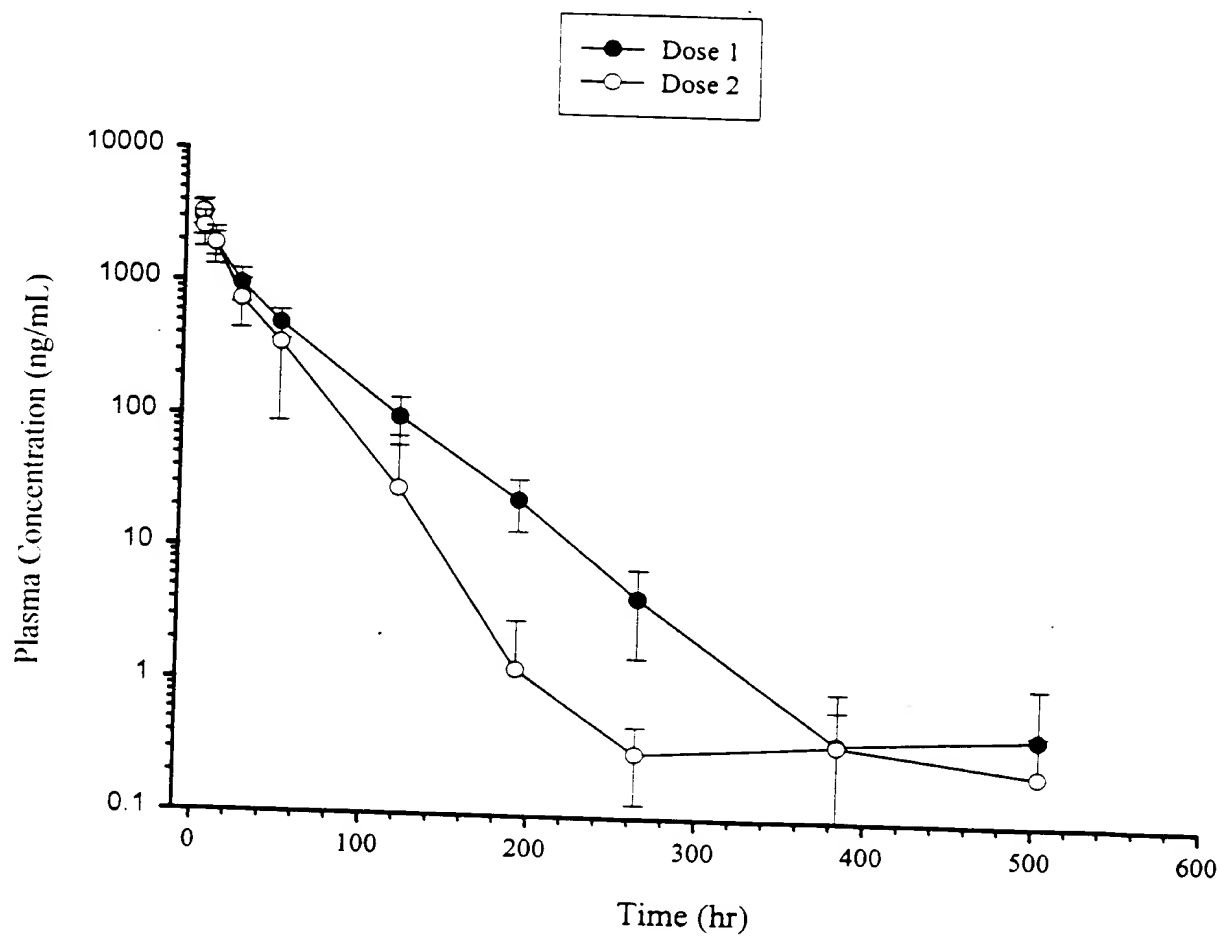


FIG. 11

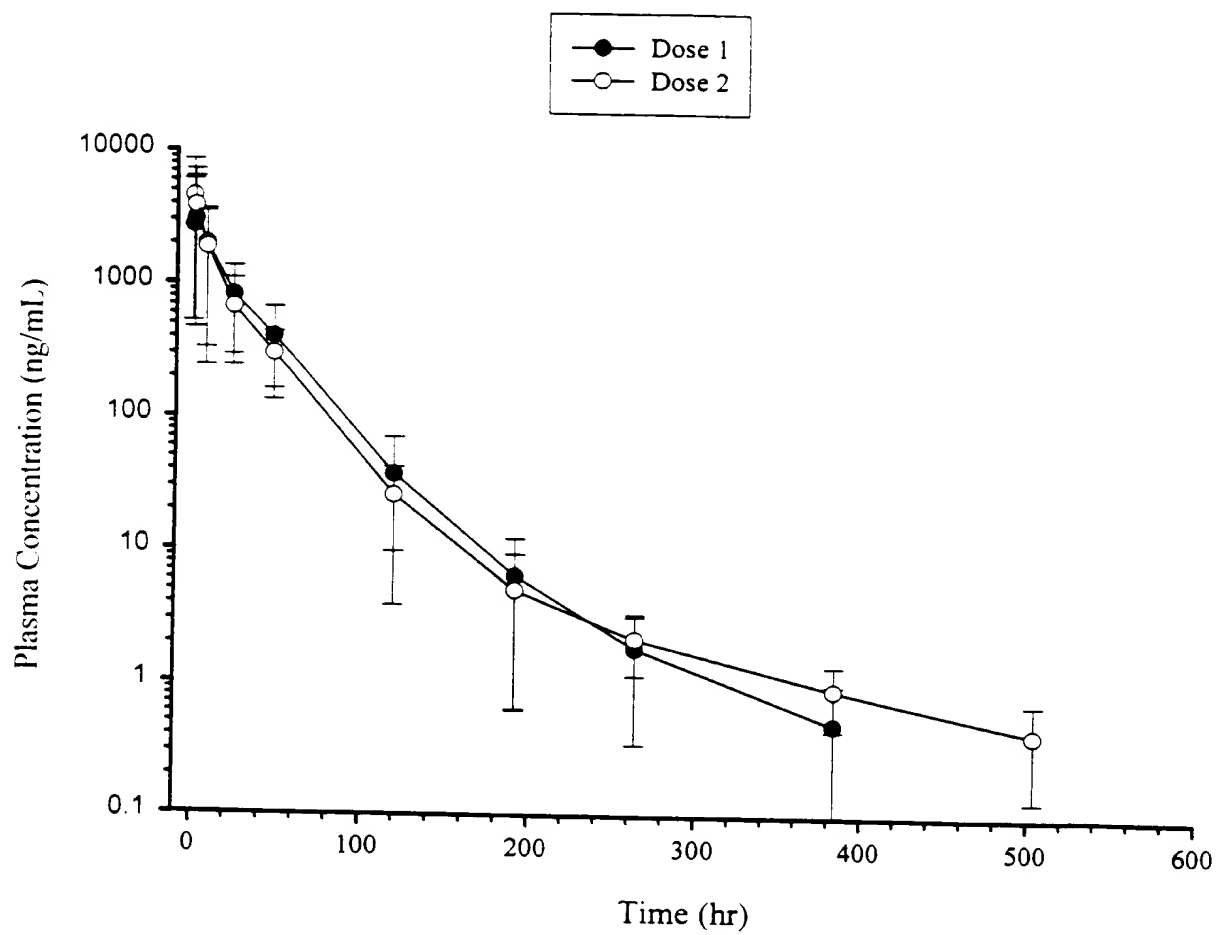


FIG. 12

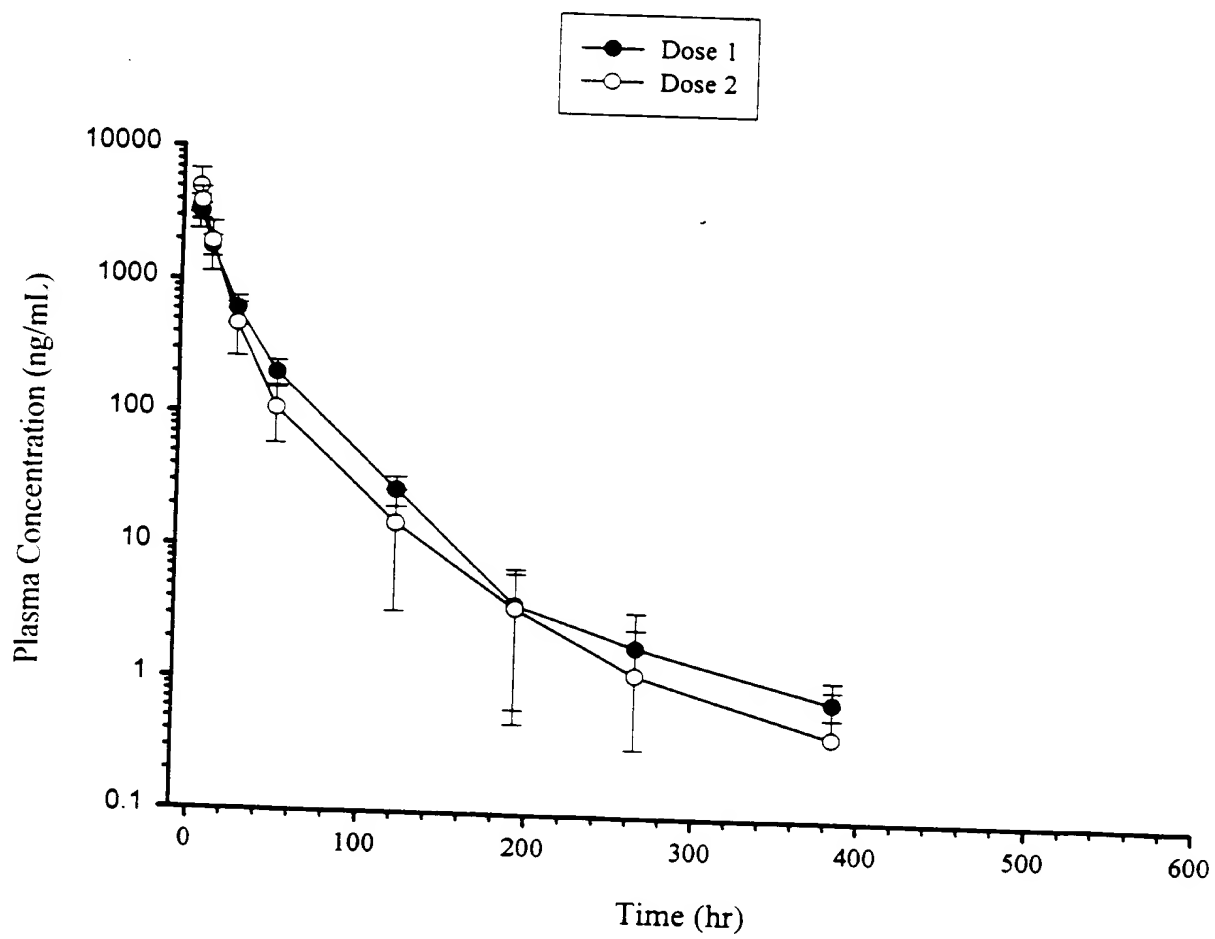


FIG. 13

